



IDEM's Surface Water Quality Assessment Program

Fixed Station (Ambient) Monitoring Program

Program Objective

The objective of this program is to provide basic information that will reveal water quality trends and provide data for the many existing and prospective users of surface water in Indiana. The program was developed to determine chemical, physical, and bacteriological characteristics of Indiana water under changing conditions. Currently, water quality data are collected monthly from 163 sites on various rivers and streams. Although the number and location of some of these stations have changed over time, a number of the stations have been continuously monitored since 1957. The information has been used in determining background data for certain types of pollutants, such as chlorides and phosphorous. The information also assists in the development of wasteload allocations and NPDES permits for municipal and industrial wastewater treatment plants and for other municipal, industrial, agricultural, and recreational uses. Additionally, the information is collected for future pollution abatement activities such as the review of non-point source effects; and in procuring data useful and necessary for securing public action toward the preservation of streams for all beneficial uses.

Program Participants

This program is operated through the sampling efforts by the Survey Section of the Indiana Department of Environmental Management's Office of Water Quality (OWQ) at the Assessment Branch. Laboratory analyses are performed at the Indiana State Department of Health (ISDH) Laboratory.

Program Description

Media:	Surface Water: rivers, streams and lakes
Study Area:	Statewide
Site Selection Type:	Network established in 1957
Sampling Sites:	163 fixed stations
Sampling Frequency:	Monthly
Data Collected:	Water Chemistry, Bacteriological and Field Analytical Data

Program Products

- < Report: Indiana Water Quality Monitor Station Records: Rivers and Streams
- < Data available in the AIMS database (IDEM Assessment Branch) and U.S. EPA **STORET** database
- < Trend Analysis reports by Monitoring Strategy timeline

Technical Notes

< Parameters vary for each site

Water Chemistry Parameters			
Priority Metals	Secondary Metals	Anions Physical	Others
Arsenic	Calcium	Alkalinity	TKN
Cadmium	Iron	Total Solids	Ammonia
Chromium	Magnesium	Suspended Solids	Nitrate-Nitrite
Chromium (Cr+6)	Manganese	Dissolved Solids	Total Phosphorus
Copper	Sodium	Fluoride	TOC
Lead	Dissolved Iron	Sulfate	Cyanide
Selenium	Dissolved Manganese	Chloride	BOD
Nickel	Dissolved Copper	Hardness	COD
Zinc	Dissolved Lead	Dissolved Oxygen	<i>E. coli</i>
Barium	Dissolved Zinc	PH	Dissolved reactive silica
Silver		Specific Conductance	
			Radionuclides
			Pesticides

Contact Information

Mark A. Holdeman, Senior Environmental Manager
Indiana Department of Environmental Management
Office of Water Quality, Assessment Branch
100 North Senate Avenue
MC65-40-2 Shadeland
Indianapolis, IN 46204-2251
Phone: (317) 308-3198
Fax: (317) 308-3219
E-mail: mholdema@idem.IN.gov

<p>IDEM Information: (317) 232-8603 or 800-451-6027 800-743-3333(TDD) toll-free for Indiana residents www.IN.gov/idem/water/</p> <p>Report Environmental Emergencies: (888) 233-7745</p> <p>Confidential Technical Assistance: (800) 988-7901</p> <p>Pollution Complaint: www.IN.gov/idem/pollutioncomplaints/</p> <p>Questions and Comments: www.IN.gov/idem/contact/questions.html</p>	<p><i>For More Information on IDEM's Office of Water Quality...</i></p> <p>Assessment Branch (Surface water quality monitoring: rivers and streams, lakes, water quality standards) Shadeland Office, Indianapolis (317) 308-3173</p> <p>Compliance Branch (Compliance and inspections, data and information services, wastewater certification and continuing education) Indiana Government Center North, Indianapolis (317) 233-2545</p> <p>Drinking Water Branch (Public water supply supervision and ground water protection) Shadeland Office, Indianapolis (317) 308-3308</p> <p>Permitting Branch (Facilities Construction & Engineering Support, Industrial & municipal permits, modeling, and wet weather) Indiana Government Center North, Indianapolis (317) 232-8760</p> <p>Watershed Planning Branch (Rules development, wetlands, TMDL, watershed management) Indiana Government Center North, Indianapolis (317) 233-8488</p>
---	--